

IN THE CLAIMS

Please amend the claims as follows:

1. (Amended) An autostereoscopic display supplying a viewer with a stereoscopic image when viewed from an intended perspective, comprising:
a pixel array including individual pixels each having subpixel elements, N
individual pixels being arranged into an individual pixel groups, wherein N is
equal to the number of individual perspective images to be displayed, each said
pixel including plural subpixels extending in a horizontal direction from the
viewer's intended perspective and forming a part of an individual perspective
image;
a first lenticular array positioned vertically from the viewer's intended
perspective and focusing light from said subpixels of each said pixel to a single
spatial point between said pixel array and the viewer; each said pixel group in
the horizontal direction being focused by a different first lens of said first
lenticular array; and
a second lenticular array positioned between said first lenticular array
and the viewer such that images projected from different pixels of each pixel
group are directed to a different location at an intended viewing point, the
spacing of the images from each pixel of said pixel groups being separated at
the intended viewing position at about the spacing between human eyes to
thereby display said plural images stereoscopically.

9. An autostereoscopic display, comprising:

 a pixel array including several pixel groups;

 a first lenticular array positioned between the pixel array and a viewer, said first lenticular array comprising a plurality of first lenses corresponding respectively to the pixels of the pixel array such that such that the lenses of said first lenticular array include a plurality of first lens groups corresponding to said pixel groups; and

 a second lenticular array positioned between the first lenticular array and a viewer such that images projected from first lenses within each first lens group pass through a corresponding one of several lenses within the second lenticular array,

 wherein a pitch of lenses within the second lenticular array differs from a pitch of the first lens groups within the first lenticular array.

19. (Amended) A method of displaying multidimensional images on an autostereoscopic display, comprising:

 generating images using a pixel array including several pixel groups;

 projecting the images generated by each pixel through a corresponding plurality of first lenses of a first lenticular array, thereby projecting the images through several first lens groups; and

 projecting the images projected through each first lens group through a different and corresponding one of several second lenses within a second

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lenticular array that is positioned between the first lenticular array and a viewer, the further projecting involving projecting the images through second lenses having a pitch that differs from a pitch of the first lens groups within the first lenticular array.
